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R	EC'D	15	JUL	2004
W	IPO			PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

App	Applicant's or agent's file reference							
FOF				FOR FURTHER AC	R ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
			International filing date (30.10.2003	day/month/	(year)	Priority date (day/month/)	year)	
	International Patent Classification (IPC) or both national classification and IPC A61K7/06							
	licant ILEVI	ER P	LC et al.					
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2.	This	REP	ORT consists of a total	of 5 sheets, including th	is cover s	heet.		
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of sheets.							
3.	3. This report contains indications relating to the following items:							
	ı	\boxtimes	Basis of the opinion					
	11		Priority					
	Ш		Non-establishment of	opinion with regard to no	velty, inve	entive step and	d industrial applicability	v
	IV		Lack of unity of invent		•			
	V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			l applicability;				
	VI		Certain documents cit	ed				
	VII		Certain defects in the	international application				
	VIII		Certain observations of	on the international applic	cation			
Date	Date of submission of the demand				Date of co	mpletion of this	report	
22.0	22.03.2004			14.07.2004				
Nam	Name and mailing address of the international			Authorized Officer				
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465			Giese, H		99-8488			
Telephone No. +49 89 2399-8488					· Caltes expos			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/12066

	l.	Basis	of the	rep	ort
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	escription, Pages					
	1-25		as originally filed				
	.						
		ms, Numbers					
	1-14	•	as originally filed				
2.	With lang	Vith regard to the language , all the elements marked above were available or furnished to this Authority in the anguage in which the international application was filed, unless otherwise indicated under this item.					
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:				
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publi	ication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).				
3.	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: 						
		contained in the inter	mational application in written form.				
		filed together with the	e international application in computer readable form.				
	atly to this Authority in written form.						
	☐ furnished subsequently to this Authority in computer readable form.						
The statement that the subsequently furnished written sequence listing does not go beyond the in the international application as filed has been furnished.							
		The statement that the listing has been furnitude.	ne information recorded in computer readable form is identical to the written sequence shed.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.	5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this				
6.	Additional observations, if necessary:						

Form PCT/IPEA/409 (January 2004)

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/EP 03/12066

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
 citations and explanations supporting such statement
 - 1. Statement

Novelty (N)

Yes: Claims No:

1-14

Inventive step (IS)

Claims

Claims

Yes: Claims

1-14

No:

Industrial applicability (IA)

Yes: Claims No: Claims 1-14

2. Citations and explanations

see separate sheet

Re Item V

Cited documents

1. The following documents (D) are referred to in this communication:

> D1: EP-A-0 529 883 A D2: WO 00/66081 A D3: US 6 040 282 D4: US 6 090 773

2. Document D1 discloses a shampoo comprising (a) 0,01-50% of a surfactant, (b) 0.01-10% of a cationic polymer, (c) 0,01-50% of a conditioning oil and (d) 20-99% of water. The cationic polymer is either cationic guar gum derivative or a cationic cellulose ether derivative. This piece of prior art does not reveal the parallel use of two cationic polymers with the identical base monomer and specific charge densities.

Document D2 relates to a shampoo having (a) 5-50% of a surfactant, (b) 0,02-5% of a combination of a cationic guar gum with a charge density of 0,05-0,9 meg/g and a cationic cellulose with a charge density of 0,2-0,6 meq/g, (c) 0,01-10% of a silicone conditioning agent and (d) 20-94,75% of water. This document proposes to use two different cationic polymers without giving individual weight ranges.

Document D3 describes a shampoo for styling comprising (a) 5-50% of a surfactant, 0,025-3% of a cationic deposition polymer wihcih is a combination of guar gum and cellulose, (c) 0,1-3% of a silicone conditioning agent and (d) 22-93,4% of water. This document lacks in teaching two cationic polymers with the same base monomer.

Novelty (Article 33(2) PCT)

- The present independent product claim 1 defines a hair-washing composition 3. comprising (a) 1-50% of a surfactant, (b) 0.01-0,5% of a first cationic polymer, (c) 0,01-0,4% of a second polymer, (d) more than 40% of water and (d) 0,1-10% of a discrete, dispersed droplet of conditioning oil wherein the cationic polymers have the same monomeric units and the same cationic substituents. The present independent method claim 20 defines step (a) massaging the composition into the hair, (b) rinsing and (c) drying the hair.
- 4. None of the cited prior art documents teaches that two cationic polymers with the

EXAMINATION REPORT - SEPARATE SHEET

same monomeric units are comprised in a shampoo which each have different charge densities.

Therefore, present claims 1 to 14 are considered to be novel (Article 33(2) PCT).

Inventive Step (Article 33(3) PCT)

- 5. The problem to be solved in present application was to make the hair easier to comb when wet and more manageable when dry and to provide low friction and ease of combing for dry hair (see page 1, lines 23-29). The solution proposed by the present application is the claimed specific combination of cationic polymers (see page 2, lines 11-20).
- The same technical problem as defined in the present application appears to be 6. solved by the disclosure in document D4 (see col. 3, lines 50-54). The solution proposed by D4 is to use two cationic conditioning polymers selected from (a) cationic cellulose, (b) cationic guar and (c) cationic polyacrylamide (see claim 1). This document does not propose or leads the skilled man to use two cationic polymers of the same monomeric unit with the same cationic substituents but different charge densities.

Therefore, present claims involve an inventive step (Article 33(3) PCT).